

May 14, 2026

Revised Proposal: 10009840

Sylvia Miller
City of Dickinson
38 1st Street West
Dickinson, ND 58601

Re: Proposal for a Geotechnical Evaluation
City of Dickinson 2027 Geotechnical Engineering Services for Various Improvement Projects
Various Streets
Dickinson, North Dakota

Dear Ms. Miller:

Braun Intertec Corporation (Braun Intertec) submits this proposal to complete a geotechnical evaluation for the four projects included in the City of Dickinson 2027 Geotechnical Engineering Services for Various Improvement Projects. You requested a specific scope of work in the RFP we received on March 27, 2026, and we responded with our proposal dated April 17, including the requested scope, and an alternative scope tailored to the project goals. We understand you would like to proceed with our alternative work scope, and we have revised our proposal with this in mind for clarity of scope.

Our scopes for the projects include modifications to the requested laboratory testing frequencies based on our experience with the local soil conditions, incorporation of Ground Penetrating Radar (GPR) to provide more data for pavement thickness evaluations, reducing the number of pavement cores to confirm GPR results, and adding post-report collaboration time with you for meetings and consulting.

Project Information

Per the RFP received March 27, 2026, we understand the city is seeking geotechnical services for four projects. These include the following:

- Task 1: Project 202701 – 2027 Road Maintenance – this includes street repairs (expected to be mill and overlay) for several residential neighborhoods. This project also includes new watermain proposed along two blocks of 3rd Street Southwest.
- Task 2: Project 202703 – 2027 Watermain Replacement – this includes approximately 20 blocks of watermain replacement between 2nd Street West and 7th Street West, north of downtown Dickinson. Based on the project location, there is a chance of shallow bedrock near the top of the hill between 6th Street West and 7th Street West.



- Task 3: Project 202610 – Empire Road, 23rd Ave West to 8th Ave West – this project includes a planned mill and overlay of approximately 5,200 linear feet of asphalt pavement.
- Task 4: Project 202611 – Fairway Street, 23rd Ave West to 13th Ave West – this project includes a planned mill and overlay of approximately 3,100 linear feet of asphalt pavement.

Qualifications

Our work will be managed by Ian Becket and reviewed by Wes Dickhut, PE, from our Bismarck office. Wes Dickhut is a registered professional engineer in North Dakota. We have performed geotechnical evaluations for the City of Dickinson in 2024 and 2025 for various infrastructure and building projects. We additionally have performed many pavement evaluations in nearby cities in Western North Dakota including utility support and backfill recommendations, pavement design recommendations, and value engineering options to improve various pavements with options including geogrid. We have additionally begun to incorporate non-destructive techniques, including GPR, into pavement evaluations for much higher detail data of bituminous and aggregate base thicknesses to support mill and overlay or other pavement improvement techniques. Our GPR team is based in the Twin Cities in Minnesota and have extensive experience with pavement improvement across North Dakota and Minnesota.

Our local Dickinson office is staffed with engineering technicians who can provide testing and support during construction and are managed by Jeremy Ficek, an experienced technician familiar with NDDOT testing. We additionally have experienced technicians experienced with utility and pavement construction and testing in our Bismarck office. We can provide observations, testing, and consulting support during construction in the event unexpected conditions are encountered. We do not anticipate any conflicts of interest associated with these projects.

Purpose

The purpose of our geotechnical evaluation will be to characterize subsurface geologic conditions at selected exploration locations, evaluate their impact on the project, and provide geotechnical recommendations for the design and construction of utility and street improvements.

Scope of Services

We propose the following tasks to help achieve the stated purpose. If we encounter unfavorable or unforeseen conditions during the completion of our tasks that lead us to recommend an expanded scope of services, we will contact you to discuss the conditions before resuming our services.



Coordination

We anticipate we can complete the tasks with efficiency to combine mobilizations from our Bismarck office for field exploration. We will provide frequent updates on our field work status, completion, and expected timing of our draft reports. We expect to meet with you and your designated design team on each project at least once to discuss our results and collaborate on solutions for each project.

Site Access

Based on aerial photographs, it appears that the site is accessible to our truck-mounted drill rig. We assume there will be no cause for delays in accessing the exploration locations.

Depending on access requirements, ground conditions or potential utility conflicts, our field crew may alter the exploration locations from those proposed to facilitate accessibility.

Our drilling activities may also impact the vegetation and may rut the surface to access boring locations. Restoration of vegetation and turf is not part of our scope of services.

Ground Penetrating Radar (GPR)

We will incorporate ground penetrating radar (GPR) to provide more data of the existing street conditions as mill and overlay is the desired street improvement approach for Tasks 1, 3, and 4.

To provide a continuous profile of pavement layer thicknesses along the streets, we will perform GPR testing using a 2.0-gigahertz, air-coupled unit from GSSI, Inc. Testing will be performed at posted speeds in a single direction of travel. We will provide results on a street-by-street basis.

Pavement layer thickness data will be gathered at an interval of approximately four data points per foot. Our GPR measurements will be tied to GPS coordinates and interpreted thicknesses will be verified with information obtained from the pavement cores and hand auger borings. A GPR unit of this configuration can be expected to penetrate a maximum of 2 to 3 feet under ideal conditions. Unfavorable soils and ambient and electromagnetic interference may limit the useful depth of the data.

Once reviewed, we can share the GPR data with the design team. In our experience it is best to complete the GPR data collection and review in advance of invasive exploration including soil borings and cores. This approach can identify thick and thin areas of pavement and confirm observed conditions with field data. We propose to reduce the number of cores for Task 1 to 30; we will collaborate with you and the design team to select or modify exploration locations based on field/observed conditions.



Staking

We will stake the proposed boring locations, as selected by you, using our Trimble Catalyst GPS. This GPS can typically give accuracies of +/- 1 inch. For purposes of linking the GPS data to an appropriate reference, we request that you provide CAD files indicating location/elevation references appropriate for this project. We will provide exploration location coordinates and elevations in the NAD83 and NAVD88 datums, respectively.

Utility Clearance

Prior to drilling or excavating, we will contact North Dakota One Call and arrange for notification of the appropriate utility vendors to mark and clear the exploration locations of public underground utilities.

You, or your authorized representative, are responsible to notify us before we begin our work of the presence and location of any underground objects or private utilities that are not the responsibility of public agencies. As the borings are to be performed in the public right of way, we expect no private utilities will be a conflict.

Traffic Control

Our borings will extend into the right of way of public streets and thus, we must provide traffic control to facilitate our work. For tasks 1 and 2, we expect the traffic volumes will be low and in residential neighborhoods. We will provide signs and cones to divert traffic around our work area; we must provide a traffic control supervisor to assist the drill crew with setup and teardown of the traffic control setup, monitor traffic during the work period, and assist the public with navigating around the work area. Our proposal includes fees for these activities.

We understand the traffic volumes of Fairway Street (Task 4) require a full traffic control setup, including cones, signs, and flaggers. We will retain 3D Specialties to complete the required traffic control setups and flag for the duration of the work in accordance with the AASHTO Uniform Manual of Traffic Control Devices. Due to the small amount of soil borings required for this task, we will also complete the borings for Task 3 the same day, utilizing 3D Specialties for traffic control on this as well. This reduces risk of traffic incidents, increases the safety of our crew, and incurs little extra cost, as our subcontractor will already be onsite. We expect the exploration activities for Tasks 3 and 4 can be completed in the same day of work.

Pavement Coring

We will core the street pavements at selected locations with a diamond core barrel coring rig. After the core is removed from the corehole, we will measure aggregate base thickness at each boring location using a hand auger. Additionally, we will perform a Dynamic Cone Penetrometer to approximately 12 inches below the bottom of the aggregate base to collect subgrade strength data for use in pavement evaluation.



Penetration Test Borings

We propose to drill the requested soil borings for the various projects. [Table 1](#) includes a breakdown of soil borings and depths for each task. We will perform sampling at 2 1/2-foot intervals at each boring location. We will perform a pavement core approximately adjacent to each boring location for pavement thickness and subgrade condition.

Table 1. Summary of Proposed Borings

Location	Type	Quantity	Depth (feet)
Task 1 – Street Improvements	SPT	18	5
Task 1 – Watermain	SPT	2	10
Task 2	SPT	10	10
Task 3	SPT	4	5
Task 4	SPT	3	5
	Total	37	245

We will collect bag samples from each boring from the auger cuttings for laboratory testing.

If the intended boring depths do not extend through unsuitable material, we will extend the borings at least 5 feet into suitable material at greater depths. The additional information will help evaluate such issues as excavation depth, consolidation settlement, and foundation alternatives, among others. If we identify a need for deeper (or additional) borings, we will contact you prior to increasing our total estimated drilled footage and submit a Change Order summarizing the anticipated additional effort and the associated cost, for your review and authorization.

Groundwater Measurements

If the borings encounter groundwater during or immediately after drilling of each boring, we will record the observed depth on the boring logs.

Borehole Abandonment

We will backfill our exploration locations immediately after drilling or after final groundwater measurements at each location with auger cuttings. Upon backfilling exploration locations, we will fill holes in pavements with cold bituminous patch. We intend to backfill the holes with soil samples from previous projects where a bag sample is collected.



Over time, subsidence of borehole backfill may occur, requiring releveling of surface grades or replacing bituminous or concrete patches. We are not assuming responsibility for releveling or re-patching after we complete our fieldwork.

Sample Review and Laboratory Testing

We will return recovered samples to our laboratory, where a geotechnical engineer will visually classify and log them. To help classify the materials encountered and estimate the engineering properties necessary to our analyses, we have budgeted to perform the following laboratory tests. The number of tests is listed in the attached cost estimates.

Table 2. Laboratory Tests

Test Name	AASHTO Test Method	Purpose
Moisture content	T-265	Soil classification, moisture condition, and engineering properties
Atterberg limits	T-89 & T-90	Soil plasticity, shrink/swell potential, engineering parameters, suitability of soils for reuse
Sieve-hydrometer analysis	T-88	Soil classification using sieves for gravel- and sand-sized fractions and hydrometer for silt- and clay-sized fractions
Percent passing #200 sieve	T-11	Soil classification
Standard Proctor	T-99	Determine maximum dry density and optimum moisture content of soil
California Bearing Ratio	T-193	Engineering parameter used in designing pavements

We will determine the actual laboratory testing for the project depending on the encountered subsurface conditions. If we identify a laboratory testing program that exceeds the budget included in this proposal but provides additional value to the project, we will request authorization for the additional fees through a Change Order.

Engineering Analyses

We will use data obtained from the subsurface exploration and laboratory tests to evaluate the subsurface profile and groundwater conditions, and to perform engineering analyses related to structure and pavement design and performance.



Report

We will prepare a report including:

- A sketch showing the exploration locations.
- Logs of the borings describing the materials encountered and presenting the results of our groundwater measurements and laboratory tests.
- A summary of the subsurface profile and groundwater conditions.
- Discussion identifying the subsurface conditions that will impact design and construction.
- Discussion regarding the reuse of on-site materials during construction.
- Recommendations for preparing structure and pavement subgrades, and the selection, placement, and compaction of fill.
- Recommendations for the design and construction of new utilities, pavements, and pavement improvements.

We will only submit an electronic copy of our report to you unless you request otherwise. At your request, we can also send the report to additional project team members.

Fees

We will furnish the services described in this proposal on a time and materials basis for an estimated fee as shown below in [Table](#). Additional requests for meetings, consulting or modifications to the report will be billed at a rate of \$292 per hour. Our tabulations showing hourly and/or unit rates associated with our proposed scope of services are attached.

Table 3. Estimated Fee Breakdown

Task	Estimated Fee
Task 1: Project 202701 – 2027 Road Maintenance	\$37,405.50
Task 2: Project 202703 – 2027 Watermain Replacement	\$21,118.50
Task 3: Project 202610 – Empire Road, 23rd Ave West to 8th Ave West	\$18,176.50
Task 4: Project 202611 – Fairway Street, 23rd Ave West to 13th Ave West	\$15,631.50
Subtotal	\$92,332.00



Our work may extend over several invoicing periods. As such, we will submit partial progress invoices for work we perform during each invoicing period.

Schedule

We anticipate performing our work according to the following schedule.

- GPR Mobilization– scheduled for the week of June 1st, 2026, we expect the street data can be collected within one day onsite for Tasks 1, 3, and 4
- Drill and coring mobilization – approximately 2 to 3 weeks after completion of GPR
- Field exploration – approximately one week onsite to complete soil borings and pavement cores
- Classification and laboratory testing – within 1 to 2 weeks after completion of field exploration
- Preliminary results – within two weeks after completion of field exploration
- Report submittal – within about 6 to 8 weeks completion of field exploration, we expect to meet the deadline of September 4, 2026, for issuance of draft reports for each project; we will finalize reports after the design teams have time to review and comment

If we cannot complete our proposed scope of services according to this schedule due to circumstances beyond our control, we may need to revise this proposal prior to completing the remaining tasks.



General Remarks

We based the proposed fee on the scope of services described and the assumption that you will authorize our services within 30 days and that others will not delay us beyond our proposed schedule.

We will perform our work in accordance with the negotiated general conditions between the City of Dickinson and Braun Intertec Corp, dated July 9, 2024

We appreciate the opportunity to present this proposal to you. We will be happy to meet with you to discuss our proposed scope of services further and clarify the various scope components.

To have questions answered or schedule a time to meet and discuss our approach to this project further, please contact Ian Becket at 612.750.2758 (ibecket@braunintertec.com).

Sincerely,

Braun Intertec Corporation

Ian C. Becket, EI
Staff Engineer

Charles (Wes) Dickhut, MS, PE
Associate Director, Principal Engineer

Attachments:

Wes Dickhut Curriculum Vitae
Project Proposals
Negotiated General Conditions (07/09/2024)

The proposal is accepted, and Braun Intertec is authorized to proceed.

Authorizer's Firm

Authorizer's Signature

Authorizer's Name (please print or type)

Authorizer's Title

Date



As a principal engineer at Braun Intertec in North Dakota, Mr. Dickhut serves as the technical leader for geotechnical engineering and construction materials testing projects for a variety of institutional, transportation, commercial, utility, industrial, and residential projects. His responsibilities include determining client needs, developing an appropriate scope of services to meet those needs, and managing the project to be completed on time and within budget. Wes also develops solutions and makes recommendations for geotechnical engineering reports, performs research, writes reports, examines soil samples, monitors budgets, and works with engineers, engineering assistants, technicians, and drillers to coordinate their activities. He is an adjunct for the University of Mary Civil Engineering program, and gives guest lectures to local universities on site improvement and slope stabilization alternatives.

EDUCATION

B.S., Geological Engineering,
Colorado School of Mines

M.S., Geological Engineering,
University of Idaho

PROFESSIONAL REGISTRATIONS

Professional Engineer:
ND No. PE-9213
MN No. 56467
MT No. 30686
SD No. 11962
WY No. 14979
KS No. 25457
CO No. PE. 0061048

CERTIFICATIONS

Remote Pilot Certificate No. 4452875

PROFESSIONAL AFFILIATIONS

North Dakota Society of Professional Engineers

- Past President, Chapter 3
- Vice President, Statewide

Minnesota Geotechnical Society

American Society of Civil Engineers

PROJECT EXPERIENCE

- *Leland Olds Interim and Permanent Dewatering Facility, Stanton, ND* — Performed geotechnical evaluation for the interim structure in a very quick turnaround time and concluded that the site was suitable for construction since the area had been previously surcharged with stockpiled coal. The permanent facility required site improvement, and we assisted by discussing improvement requirements with qualified contractors.
- *Wastewater Reclamation and Recycling Facility (WRRF), Williston, ND* — Performed the geotechnical evaluation for the proposed WRRF. The facility included structures founded on driven pile foundations, rammed aggregate piers, and conventional foundations.
- *Historic Bridge Replacement, Velva, ND* — Performed subsurface explorations for the existing historic bridge that were re-used after new foundations were constructed. Provided recommendations for driven H-pile foundations that were available for re-use at the local DOT shop. Provided stability evaluation of the proposed spill through slopes and side slopes.
- *Caledonia Bridge Evaluation and Replacement, Trail County, ND* — Performed slope stability monitoring of an abutment exhibiting distress. Provided recommendations for mitigation, design, and construction of the new bridge, as well as road alignment that avoided potential slope stability problems. Construction plans included surcharge placement to reduce the effect of settlement on one of the new abutments.
- *County Bridge Replacements, MT and ND* — Performed geotechnical evaluations and provided design and construction recommendations for bridge replacement projects for counties in Montana and North Dakota.

**While employed by another firm.*

CHARLES W. DICKHUT, PE
Technical Leader / Principal Engineer

- *Railroad Track Stability Evaluation, Williston, ND* — Performed subsurface explorations and monitored slope inclinometers along a five mile stretch of mainline tracks that were affected by unstable cut slopes. Solution included material removal and regrading to achieve a semi-stable configuration that could be implemented quickly.
- *Spring Brook Compressor Station, Williston, ND* — Performed subsurface explorations and provided recommendations for design and construction of the compressor station on spread footings, drilled piers, and helical piles. Report included required dynamic material properties and lateral pile evaluation based on loads provided.
- *Halliburton Sand Plant, Richardton, ND* — Performed a geotechnical evaluation for the proposed railroad and sand loading facility. Equipment included heavily loaded silos, warehouses, and tanks supported on driven pile foundations and spread footings. Earthwork recommendations included options to re-use on site soils for railroad subgrade and embankment construction. Designed unloading pit walls to resist rail surcharge. During construction, we provided recommendations to repair soft subgrade due to frost and provided dynamic pile testing and observation.
- *Hess Oil Well Pads, ND* — Performed geotechnical evaluation for proposed development of well pads based on proposed grading plan and facilities layout, subsurface conditions encountered in five strategic soil borings, and geologic/soils/aerial information. Reports provided recommendations for earthwork, facility foundation, corrosion resistance, and mitigating unsuitable materials.
- *XTO Tank Batteries, ND* — Provided a limited geotechnical evaluation for oil well tank batteries that consisted of two to three soil borings. Evaluation included frost heave susceptibility, swell potential, fill depth, and settlement potential of native soils. Recommendations included site preparation requirements of helical pile foundation recommendations.
- *Salt Water Disposal Pads, ND* — Performed soil borings required by state regulatory agency, evaluated the subsurface conditions with respect to protection of underlying groundwater resources, and provided site preparation recommendations for pad development.
- *Nessom Gas Plant Expansion, Tioga, ND* — Provided recommendations for earthwork, spread footing, and drilled piers for the expansion of the existing gas plant.
- *Burleigh/Morton County Detention Facility, Bismarck, ND* — Provided dynamic compaction recommendations to improve existing fill soils so that spread footing foundations and ground supported slabs could be reliably used to support the proposed building.

**While employed by another firm.*

CHARLES W. DICKHUT, PE

Technical Leader / Principal Engineer

- *South Dakota Armory National Gard (SDARNG) Readiness Center, Mobridge, SD* — Performed a geotechnical evaluation to evaluate causes of distress for a facility constructed over Pierre Shale and old landfill deposits. Provided recommendations for maintenance and repair.
- *Trinity Hospital, Minot, ND* — Performed a subsurface exploration and provided geotechnical recommendations for building support including driven piles, temporary and permanent basement dewatering, and temporary access roads.
- *Sakakawea Memorial Hospital Replacement, Hazen, ND* — Performed the geotechnical evaluation for a replacement hospital located between the existing hospital and a heavily used railroad. Challenges included existing fill and subgrade soils that consisted of fat clay and frost susceptible silt. Performed site-specific vibration monitoring for the structural engineer to design isolation foundation for imaging equipment.
- *McKenzie County Healthcare Facility, Watford City, ND* — Performed the geotechnical evaluation for the new facility to be constructed as an addition to the existing long-term care facility. We provided recommendations for three options for supporting the heavily loaded main structure on the weak native soils that were encountered at the basement foundation level.
- *Gateway to Science, Bismarck, ND* — Performed the preliminary geotechnical evaluation of the proposed site to rapidly discern the feasibility of constructing the proposed building on a site that had been impacted by historic fill placement. Provided recommendations for supporting the architecturally significant portions of the building as close as practical to the existing slopes, and performed test pit explorations to confirm our recommendations after design development proceeded.
- *Dodge Lagoons, Dodge, ND* — Principal engineer for lagoon rehabilitation as well as new construction. Project included slope stability of existing embankments and the recommendation for construction of a clay liner.
- *Ross Lagoon Expansion and Rehabilitation, Ross, ND* — Principal engineer for construction of a new lagoon cell, as well as the rehabilitation of the existing lagoon. Project included slope stability of existing cell under drawdown conditions for rehabilitation and recommendations for new embankments and clay liner construction.
- *Hartel Reservoir, McKenzie County, ND* — Provided the geotechnical evaluation for a water storage reservoir to support fracking operations. Evaluations included slope stability, seepage, groundwater control, and shrinkage. During construction, assumptions were confirmed and the earthwork procedures were modified to address encountered conditions.
- *Watford City High School and Roughrider Event Center, Watford City, ND* — Performed the geotechnical evaluation for proposed facilities that included cuts and fills on the order of 60 feet which included bedrock excavation and re-use of on-site material.

**While employed by another firm.*

CHARLES W. DICKHUT, PE
Technical Leader / Principal Engineer

- *Convention and Visitors Bureau, Bismarck, ND* — Observed distress and performed a limited subsurface exploration to evaluate potential causes of distress affected walls, floor slabs, and support beams.
- *Distress Evaluation, Bismarck-Mandan, ND* — Observed and discussed with homeowners in the Bismarck-Mandan area patterns of distress and possible root causes for the excessive footing settlement on homes that was related to poor subgrade conditions, expansive clay, and frost heave.
- *South Ridge Apartments, Williston, ND* — Performed a subsurface explorations and coordinated the design of a soldier pile retaining wall to protect the clubhouse and parking area at a failing slopes. Evaluations also included distress observations due to settlement of poor quality fill at several other structures on the property. While working for a design/build contractor, oversaw the design and construction of micropile underpinning at two building entrances.
- *Good Shepherd Village, Endicott, NY** — Evaluation of multi-story apartments, single family homes, retaining walls, and a healthcare facility that were impacted by placement of frozen and uncompacted backfill. Distress included differential and excessive settlement. Repair strategies included underpinning, void grouting, over excavation and replacement, and monitoring.
- *Kings Gate West Apartments, Camillus, NY** — Forensic investigation of existing three-story apartment building that had experienced more than three inches of differential settlement. Work included level survey, soil borings, test pits to evaluate the subsurface conditions, and review of historical and anecdotal information to establish a timeline of distress. Recommended compaction grouting and provided construction materials testing services during restoration.
- *Hoy Road, Cornell University, Ithaca, NY** — Performed subsurface exploration and slope inclinometer monitoring of historic landslide that had been periodically active since the 1930s, overlooking scenic Cascadilla Creek. The roadway was critical for access to the campus and included the main steam heating lines between campus and the heating plant. Solution involved the installation of a soldier pile wall with tied-back anchors, drainage provisions, and placement of geofoam between the steam tunnels and wall.
- *Johnny Bird Veterans Memorial Retaining Wall, New Town, ND* — Performed subsurface exploration and geotechnical evaluations of an MSE retaining wall that had settled over 2 feet. Recommended remediation activities for subgrade improvement. While working for a design/build contractor, oversaw the design and construction of a jet grouting program to accommodate reconstruction of the retaining wall.

**While employed by another firm.*

CHARLES W. DICKHUT, PE
Technical Leader / Principal Engineer

- *EN-Sorenson Access Road, Mountrail County, ND* — Performed subsurface exploration and slope stability evaluations of an access road to a remote location in a sensitive environmental area. Recommendations including maximum slope inclinations and providing structural retaining wall alternatives. While working for a design/build contractor, oversaw the design and construction of a soil nail wall with high strength steel mesh for a distressed area.
- *Tower Road Retaining Wall, Rapid City, SD** — Led a design/build competitive proposal for the design and construction of a retaining wall below high voltage power lines. Solution included a micropile supported retaining wall to restore the road and provide adequate shoulder for guardrail/pedestrian access while keeping the power lines energized.

**While employed by another firm.*



Fee Estimate 10009840_001

Task 1 - Project 202701 - 2027 Road Maint

Client:
City of Dickinson
Kris Keller
38 1ST St W
Dickinson, ND 58601-5106
701.300.1930

Work Site Address:
230 West Villard Street
Dickinson, North Dakota 58601

	Qty/Hours	Rate	Amount
Task 1: Geotechnical Evaluation			
Subtask 1.1: Site Reconnaissance, Staking, & Utility Clearance			\$2,860.00
Utility clearance and staking	12.00	176.00	\$2,112.00
CADD Drafting	2.00	155.00	\$310.00
Vehicle, per mile	200.00	0.80	\$160.00
Trimble Catalyst GPS, Centimeter, per day	1.00	278.00	\$278.00
Subtask 1.2: Coring Services			\$7,298.00
Staff Engineer - Lead Coring Technician	20.00	176.00	\$3,520.00
Field Service Technician - Coring Assistant	20.00	104.00	\$2,080.00
Vehicle, per mile	400.00	0.80	\$320.00
Bituminous patch, per bag	30.00	23.00	\$690.00
Coring Equipment and Core Barrel Wear (per 1/2 day)	4.00	172.00	\$688.00
Subtask 1.3: Drilling Services			\$7,740.00
Truck Mounted Drilling Services, per hour	20.00	387.00	\$7,740.00
Subtask 1.4: Drilling Expenses and Support			\$3,943.00
Staff Engineer	20.00	176.00	\$3,520.00
Warning signs - Per Day, including trailer	2.00	200.00	\$400.00
Bituminous patch, per bag	1.00	23.00	\$23.00
Subtask 1.5: Laboratory Tests			\$5,168.00
Soil Moisture Content ASTM D2216 each	22.00	27.00	\$594.00
Soil Atterberg Limits LL and PL, Single-Pt, ASTM D4318 each	10.00	144.00	\$1,440.00
Soil Sieve Loss by Washing Through #200 Sieve each	10.00	96.00	\$960.00
Soil Proctor MD Relationship (Standard) ASTM D698 each	4.00	219.00	\$876.00
Soil California Bearing Ratio ASTM D1883 per molded each	2.00	399.00	\$798.00
Subcontractor - Project X - Sulfate	5.00	100.00	\$500.00
Subtask 1.6: Evaluation/Analysis/Reports			\$5,806.00
Staff Engineer	18.00	176.00	\$3,168.00
Project Engineer	2.00	219.00	\$438.00
Principal Engineer	4.00	292.00	\$1,168.00
Project Assistant	6.00	84.00	\$504.00
Project Manager	3.00	176.00	\$528.00
Subtask 1.7: GPR Services			\$4,590.00
Project Engineer	10.00	219.00	\$2,190.00
GPR Technician	10.00	121.00	\$1,210.00
FWD/GPR Mobilization, per mile	400.00	1.00	\$400.00
GPR Equipment Fee, Roadway, per hour	10.00	79.00	\$790.00
Task 1 Total:			\$37,405.00
Project Total			\$37,405.00



Fee Estimate 10009840_002

Task 2 - Project 202703: 2027 Watermain

Client:
City of Dickinson
Kris Keller
38 1ST St W
Dickinson, ND 58601-5106
701.300.1930

Work Site Address:
849 3rd Avenue West
Dickinson, North Dakota 58601

	Qty/Hours	Rate	Amount
Task 1: Geotechnical Evaluation			
Subtask 1.1: Site Reconnaissance, Staking, & Utility Clearance			\$2,078.50
Utility clearance and staking	8.00	176.00	\$1,408.00
CADD Drafting	1.50	155.00	\$232.50
Vehicle, per mile	200.00	0.80	\$160.00
Trimble Catalyst GPS, Centimeter, per day	1.00	278.00	\$278.00
Subtask 1.2: Coring Services			\$5,376.00
Staff Engineer - Lead Coring Technician	15.00	176.00	\$2,640.00
Field Service Technician - Coring Assistant	15.00	104.00	\$1,560.00
Vehicle, per mile	250.00	0.80	\$200.00
Bituminous patch, per bag	20.00	23.00	\$460.00
Coring Equipment and Core Barrel Wear (per 1/2 day)	3.00	172.00	\$516.00
Subtask 1.3: Drilling Services			\$4,257.00
Truck Mounted Drilling Services, per hour	11.00	387.00	\$4,257.00
Subtask 1.4: Drilling Expenses and Support			\$2,136.00
Staff Engineer	11.00	176.00	\$1,936.00
Warning signs - per day, with trailer	1.00	200.00	\$200.00
Subtask 1.5: Laboratory Tests			\$3,595.00
Soil Moisture Content ASTM D2216 each	20.00	27.00	\$540.00
Soil Atterberg Limits LL and PL, Single-Pt, ASTM D4318 each	5.00	144.00	\$720.00
Soil Sieve Loss by Washing Through #200 Sieve each	5.00	96.00	\$480.00
Soil Proctor MD Relationship (Standard) ASTM D698 each	3.00	219.00	\$657.00
Soil California Bearing Ratio ASTM D1883 per molded each	2.00	399.00	\$798.00
Subcontractor - Project X - Sulfate	4.00	100.00	\$400.00
Subtask 1.6: Evaluation/Analysis/Reports			\$3,676.00
Staff Engineer	12.00	176.00	\$2,112.00
Principal Engineer	3.00	292.00	\$876.00
Project Assistant	4.00	84.00	\$336.00
Project Manager	2.00	176.00	\$352.00
Task 1 Total:			\$21,118.50
Project Total			\$21,118.50



Fee Estimate
10009840_003
Task 3 - Project 202610: Empire Road

Client:
City of Dickinson
Kris Keller
38 1ST St W
Dickinson, ND 58601-5106
701.300.1930

Work Site Address:
310 3rd Avenue West
Dickinson, North Dakota 58601

	Qty/Hours	Rate	Amount
Task 1: Geotechnical Evaluation			
Subtask 1.1: Site Reconnaissance, Staking, & Utility Clearance			\$1,507.50
Utility clearance and staking	6.00	176.00	\$1,056.00
CADD Drafting	1.50	155.00	\$232.50
Vehicle, per mile	100.00	0.80	\$80.00
Trimble Catalyst GPS, Centimeter, per day	0.50	278.00	\$139.00
Subtask 1.2: Coring Services			\$3,534.00
Staff Engineer - Lead Coring Technician	10.00	176.00	\$1,760.00
Field Service Technician - Coring Assistant	10.00	104.00	\$1,040.00
Vehicle, per mile	200.00	0.80	\$160.00
Bituminous patch, per bag	10.00	23.00	\$230.00
Coring Equipment and Core Barrel Wear (per 1/2 day)	2.00	172.00	\$344.00
Subtask 1.3: Drilling Services			\$2,322.00
Truck Mounted Drilling Services, per hour	6.00	387.00	\$2,322.00
Subtask 1.4: Drilling Expenses and Support			\$2,750.00
Subcontractor - 3D Specialties - Traffic Control per day	0.50	5,500.00	\$2,750.00
Subtask 1.5: Laboratory Tests			\$1,625.00
Soil Moisture Content ASTM D2216 each	4.00	27.00	\$108.00
Soil Atterberg Limits LL and PL, Single-Pt, ASTM D4318 each	2.00	144.00	\$288.00
Soil Sieve Loss by Washing Through #200 Sieve each	2.00	96.00	\$192.00
Soil Proctor MD Relationship (Standard) ASTM D698 each	2.00	219.00	\$438.00
Soil California Bearing Ratio ASTM D1883 per molded each	1.00	399.00	\$399.00
Subcontractor - Project X - Sulfate	2.00	100.00	\$200.00
Subtask 1.6: Evaluation/Analysis/Reports			\$3,650.00
Staff Engineer	12.00	176.00	\$2,112.00
Project Engineer	2.00	219.00	\$438.00
Principal Engineer	2.00	292.00	\$584.00
Project Assistant	3.00	84.00	\$252.00
Project Manager	1.50	176.00	\$264.00
Subtask 1.7: Alternate 1: GPR Services			\$2,788.00
Project Engineer	2.00	219.00	\$438.00
GPR Technician	10.00	121.00	\$1,210.00
FWD/GPR Mobilization, per mile	350.00	1.00	\$350.00
GPR Equipment Fee, Roadway, per hour	10.00	79.00	\$790.00
Task 1 Total:			\$18,176.50
Project Total			\$18,176.50



Fee Estimate 10009840_004

Task 4 - Project 202611: Fairway Street

Client:
City of Dickinson
Kris Keller
38 1ST St W
Dickinson, ND 58601-5106
701.300.1930

Work Site Address:
Fairway Street
Dickinson, North Dakota 58601

	Qty/Hours	Rate	Amount
Task 1: Geotechnical Evaluation			
Subtask 1.1: Site Reconnaissance, Staking, & Utility Clearance			\$1,507.50
Utility clearance and staking	6.00	176.00	\$1,056.00
CADD Drafting	1.50	155.00	\$232.50
Vehicle, per mile	100.00	0.80	\$80.00
Trimble Catalyst GPS, Centimeter, per day	0.50	278.00	\$139.00
Subtask 1.2: Coring Services			\$2,093.00
Staff Engineer - Lead Coring Technician	6.00	176.00	\$1,056.00
Field Service Technician - Coring Assistant	6.00	104.00	\$624.00
Vehicle, per mile	100.00	0.80	\$80.00
Bituminous patch, per bag	7.00	23.00	\$161.00
Coring Equipment and Core Barrel Wear (per 1/2 day)	1.00	172.00	\$172.00
Subtask 1.3: Drilling Services			\$1,548.00
Truck Mounted Drilling Services, per hour	4.00	387.00	\$1,548.00
Subtask 1.4: Drilling Expenses and Support			\$2,750.00
Subcontractor - 3D Specialties - Traffic Control per day	0.50	5,500.00	\$2,750.00
Subtask 1.5: Laboratory Tests			\$1,379.00
Soil Moisture Content ASTM D2216 each	3.00	27.00	\$81.00
Soil Atterberg Limits LL and PL, Single-Pt, ASTM D4318 each	2.00	144.00	\$288.00
Soil Sieve Loss by Washing Through #200 Sieve each	2.00	96.00	\$192.00
Soil Proctor MD Relationship (Standard) ASTM D698 each	1.00	219.00	\$219.00
Soil California Bearing Ratio ASTM D1883 per molded each	1.00	399.00	\$399.00
Subcontractor - Project X - Sulfate	2.00	100.00	\$200.00
Subtask 1.6: Evaluation/Analysis/Reports			\$3,566.00
Staff Engineer	12.00	176.00	\$2,112.00
Project Engineer	2.00	219.00	\$438.00
Principal Engineer	2.00	292.00	\$584.00
Project Assistant	2.00	84.00	\$168.00
Project Manager	1.50	176.00	\$264.00
Subtask 1.7: Alternate 1: GPR Services			\$2,788.00
Project Engineer	2.00	219.00	\$438.00
GPR Technician	10.00	121.00	\$1,210.00
FWD/GPR Mobilization, per mile	350.00	1.00	\$350.00
GPR Equipment Fee, Roadway, per hour	10.00	79.00	\$790.00
Task 1 Total:			\$15,631.50
Project Total			\$15,631.50

Section 1: Agreement

1.1 Our agreement with you consists of these General Conditions and the accompanying written proposal or authorization ("Agreement"). This Agreement is the entire agreement between you and us. It supersedes prior agreements. It may be modified only in a writing signed by us, making specific reference to the provision modified.

1.2 The words "you," "we," "us," and "our" include officers, employees, and subcontractors.

1.3 In the event you use a purchase order or other documentation to authorize our scope of work ("Services"), any conflicting or additional terms are not part of this Agreement. Directing us to start work prior to execution of this Agreement constitutes your acceptance. If, however, mutually acceptable terms cannot be established, we have the right to terminate this Agreement without liability to you or others, and you will compensate us for fees earned and expenses incurred up to the time of termination.

Section 2: Our Responsibilities

2.1 We will provide Services specifically described in this Agreement. You agree that we are not responsible for services that are not expressly included in this Agreement. Unless otherwise agreed in writing, our findings, opinions, and recommendations will be provided to you in writing. You agree not to rely on oral findings, opinions, or recommendations without our written approval.

2.2 In performing our professional services, we will use that degree of care and skill ordinarily exercised under similar circumstances by reputable members of our profession practicing in the same locality ("Standard of Care"). If you direct us to deviate from our recommended procedures, you agree to hold us harmless from claims, damages, and expenses arising out of your direction. If during the one year period following completion of Services it is determined that the above standards have not been met and you have promptly notified us in writing of such failure, we will perform, at our cost, such corrective services as may be necessary, within the original scope in this Agreement, to remedy such deficiency.

2.3 We will reference our field observations and sampling to available reference points, but we will not survey, set, or check the accuracy of those points unless we accept that duty in writing. Locations of field observations or sampling described in our report or shown on our sketches are based on information provided by others or estimates made by our personnel. You agree that such dimensions, depths, or elevations are approximations unless specifically stated otherwise in the report. You accept the inherent risk that samples or observations may not be representative of things not sampled or seen and further that site conditions may vary over distance or change over time.

2.4 Our duties do not include supervising or directing your representatives or contractors or commenting on, overseeing, or providing the means and methods of their services unless expressly set forth in this Agreement. We will not be responsible for the failure of your contractors, and the providing of Services will not relieve others of their responsibilities to you or to others.

2.5 We will provide a health and safety program for our employees, but we will not be responsible for contractor, owner, project, or site health or safety.

2.6 You will provide, at no cost to us, appropriate site safety measures as to work areas to be observed or inspected by us. Our employees are authorized by you to refuse to work under conditions that may be unsafe.

2.7 Unless a fixed fee is indicated, our price is an estimate of our project costs and expenses based on information available to us and our experience and knowledge. Such estimates are an exercise of our professional judgment and are not guaranteed or warranted. Actual costs may vary. You should allow a contingency in addition to estimated costs.

Section 3: Your Responsibilities

3.1 You will provide us with prior environmental, geotechnical and other reports, specifications, plans, and information to which you have access about the site. You agree to provide us with all plans, changes in plans, and new information as to site conditions until we have completed Services.

3.2 You will provide access to the site. In the performance of Services some site damage is normal even when due care is exercised. We will use reasonable care to minimize damage to the site. We have not included the cost of restoration of damage in the estimated charges.

3.3 If we notify you that radiographic or gamma ray equipment or other nuclear testing or measuring device will be used, you will be responsible for the cooperation of your employees and your contractors in observing all radiation safety standards.

3.4 You will notify us of any knowledge or suspicion of the presence of hazardous or dangerous materials present on any work site. If we observe or suspect the presence of contaminants not anticipated in this Agreement, we may terminate Services without liability to you or to others, and you will compensate us for fees earned and expenses incurred up to the time of termination.

3.5 The time our field personnel spend on the job site depends upon the scheduling of the work we are observing or testing. You agree that any changes in scheduling may result in additional costs and agree to pay for those services at the rates listed in our cost estimate.

3.6 Reserved.

Section 4: Reports and Records

4.1 Unless you request otherwise, we will provide our report(s) in an electronic format.

4.2 Our reports, notes, calculations, and other documents and our computer software and data are instruments of our service to you, and they remain our property. We hereby grant you a license to use the reports and related information we provide only for the related project and for the purposes disclosed to us. You may not transfer our reports to others or use them for a purpose for which they were not prepared without our written approval. *You agree to indemnify, defend, and hold us harmless from claims, damages, losses, and expenses, including attorney fees, arising out of such a transfer or use.*

4.3 If you do not pay for Services in full as agreed, we may retain work not yet delivered to you and you agree to return to us all of our work that is in your possession or under your control.

4.4 Electronic data, reports, photographs, samples, and other materials provided by you or others may be discarded or returned to you, at our discretion, unless within 15 days of the report date you give us written direction to store or transfer the materials at your expense.

Section 5: Compensation

5.1 You will pay for Services as stated in this Agreement. If such payment references our Schedule of Charges, the invoicing will be based upon the most current schedule. An estimated amount is not a firm figure. Our performance is subject to credit approval and payment of any specified retainer.

5.2 You will notify us of billing disputes within 15 days. You will pay undisputed portions of invoices upon receipt. You agree to pay interest on unpaid balances beginning 30 days after invoice dates at the rate of 1.5% per month, or at the maximum rate allowed by law.

5.3 If you direct us to invoice a third party, we may do so, but you agree to be responsible for our compensation unless the third party is creditworthy (in our sole opinion) and provides written acceptance of all terms of this Agreement.

5.4 Your obligation to pay for Services under this Agreement is not contingent on your ability to obtain financing, governmental or regulatory agency approval, permits, final adjudication of any lawsuit, your successful completion of any project, receipt of payment from a third party, or any other event. No retainage will be withheld.

5.5 Reserved.

5.6 Reserved.

5.7 If we are delayed by factors beyond our control, or if project conditions or the scope or amount of work changes, or if changed labor conditions result in increased costs, decreased efficiency, or delays, or if the standards or methods change, we will give you timely notice, the schedule will be extended for each day of delay, and we will be compensated for costs and expenses incurred in accordance with our Schedule of Charges.

5.8 If you fail to pay us in accordance with this Agreement, we may consider the default a total breach of this Agreement and, at our option, terminate our duties without liability to you or to others, and you will compensate us for fees earned and expenses incurred up to the time of termination.

5.9 In consideration of our providing insurance to cover claims made by you, you hereby waive any right to offset fees otherwise due us.

Section 6: Disputes, Damage, and Risk Allocation

6.1 Each of us will exercise good faith efforts to resolve disputes without litigation. Such efforts will include, but not be limited to, a meeting(s) attended by each party's representative(s) empowered to resolve the dispute. Before either of us commences an action against the other, disputes (except collections) will be submitted to mediation. Pursuant to the laws of North Dakota, both parties may pursue any legal remedies under North Dakota laws.

6.2 Notwithstanding anything to the contrary in this Agreement, neither party hereto shall be responsible or held liable to the other for punitive, indirect, incidental, or consequential damages, or liability for loss of use, loss of business opportunity, loss of profit or revenue, loss of product or output, or business interruption.

6.3 You and we agree that any action in relation to an alleged breach of our standard of care or this Agreement shall be commenced within one year of the date of completion of Services. If during the one year period following completion of the services it is shown that the Standard of Care has not been met, and you have promptly notified us in writing of such failure, we shall perform, at our cost, such corrective services as may be necessary, within the original scope of the services, to remedy such deficiency.

6.4 Our aggregate liability for all claims, including our defense obligation, is limited to the lesser of those damages actually incurred and paid as a result of our negligence, or \$1,000,000.

6.5 Reserved.

6.6 This Agreement shall be governed, construed, and enforced in accordance with the laws of North Dakota, without regard to its conflict of law rules. The laws of North Dakota will govern all disputes, and all claims shall be heard in the state or federal courts for North Dakota. Each of us waives trial by jury.

6.7 No officer or employee acting within the scope of employment shall have individual liability for his or her acts or omissions, and you agree not to make a claim against individual officers or employees.

Section 7: General Indemnification

7.1 *We will indemnify and hold you harmless from and against demands, damages, and expenses of others to the comparative extent they are caused by our negligent acts or omissions or those negligent acts or omissions of persons for whom we are legally responsible. Only to the extent allowed under North Dakota law, you will indemnify and hold us harmless from and against demands, damages, and expenses of others to the comparative extent they are caused by your negligent acts or omissions or those negligent acts or omissions of persons for whom you are legally responsible.*

7.2 To the extent it may be necessary to indemnify either of us under Section 7.1, you and we expressly waive, in favor of the other only, any immunity or exemption from liability that exists under any worker compensation law.

Section 8: Miscellaneous Provisions

8.1 Reserved.

8.2 Reserved.

8.3 Neither of us will assign or transfer any interest, any claim, any cause of action, or any right against the other. Neither of us will assign or otherwise transfer or encumber any proceeds or expected proceeds or compensation from the project or project claims to any third person, whether directly or as collateral or otherwise.

8.4 This Agreement may be terminated early only in writing. You will compensate us for fees earned for performance completed and expenses incurred up to the time of termination.

8.5 If any provision of this Agreement is held invalid or unenforceable, then such provision will be modified to reflect the parties' intention. All remaining provisions of this Agreement shall remain in full force and effect.

8.6 No waiver of any right or privilege of either party will occur upon such party's failure to insist on performance of any term, condition, or instruction, or failure to exercise any right or privilege or its waiver of any breach.

Section 9: Insurance

9.1 Professional Liability Insurance. We shall maintain in full force and effect for a period of three (3) years following completion of the Services under the applicable Proposal, professional liability insurance covering the performance of the Services. Such insurance shall be on a "claims made" basis and in the amount of \$1,000,000 per claim; \$1,000,000 aggregate.

9.2 Workers Compensation Insurance. We shall maintain workers compensation insurance with following limits:

Coverage A: Statutory.

Coverage B: \$1,000,000 Bodily Injury by accident; Each accident \$1,000,000; Bodily Injury by disease Policy limit \$1,000,000; Bodily Injury by disease Each employee.

9.3 General Liability Insurance. We shall maintain general liability insurance with coverage to include: Premises/Operations, Completed Operations and Contractual Liability (to cover the indemnification provision in this Agreement). Limits of coverage shall not be less than \$1,000,000 per occurrence and \$2,000,000 aggregate.

9.4 Automobile Insurance. We shall maintain automobile liability insurance to include all owned autos (private passenger and other than private passenger), hired and non-owned vehicles. Limits of coverage shall not be less than a combined single limit of \$1,000,000 each accident.